HE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Taylor et al.

Art Unit:

2632

Appl. No.:

09/511,991

Examiner:

ANH V. LA

Filed:

2/24/2000

Atty Docket: Time.43/JSF04-0001

For:

System and Method for

Information Assimilation and Functionality Control Based on Positioning Information Obtained by **Impulse Radio Means**

STATEMENT IN SUPPORT OF PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNABOIDABLY UNDER 37 CFR 1.137(a)

Attention: Office of Petitions Mail Stop Petition Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

In reply to the Notice of Abandonment received for the above referenced case, Application submits the following statement in support of petition for revival of an application for patent abandoned unavoidably under 37 CFR 1.137(a).

Following an Examiner Interview for the above referenced case, Attorney for Applicants faxed an office action response. A copy of the response is enclosed which shows the fax date of August 26, 2003; well within the period for response. The Attorney for Applicant understood the fax number to be the fax most available to the Examiner and

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OFFICE OF PETITIONS

the one that was requested to be used by the Examiner. For verification, a copy of the fax certification is enclosed.

To ensure timeliness, Applicant is submitting this petition immediately upon receipt of notice of abandonment.

The Patent Office is authorized to charge deposit account no. 502697 for the petition fee for unavoidable delay with small entity discount. However, if it is believed that this petition would not fall with the unavoidable standard, but rather must be considered unintentional, the Patent Office is authorized to charge this larger fee as well.

Respectfully submitte

James S. Finn Reg. No. 38450

Date: 1-7-04

James S. Finn Registered Patent Attorney Time Domain Corporation 7057 Old Madison Pike Huntsville, AL 35806 202-607-4607



CERTIFICATE OF MAILING BY EXPRESS MAIL

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Date of Deposit: January 07, 2004

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to:

Attention: Office of Petitions Mail Stop Petition Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Type or Print Name, James S. Finn

Signature

PTO/SB/61 (11-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNAVOIDABLY UNDER 37 CFR 1.137(a)	
Terminal disclaimer with disclaimer fee	
Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required	. .
A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ for a small entity \$ for other than a small entity) disclaiming the required period of time is enclosed herewit (see PTO/SB/63).	or h
4. An adequate showing of the cause of the delay, and that the entire delay in filing the required reply from the due da for the reply until the filing of a grantable petition under 37 CFR 1.137(a) was unavoidable, is enclosed.	e
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.	
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Additional sheets containing statements establishing unavoidable delay	
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Thereby certify that this correspondence is being:	1
deposited with the United States Postal Service on the date shown below with sufficient postage as first	
eless mail in an envelope addressed to Mail Stop Petition , Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
transmitted by facsimile on the date shown below to the United States atent and Trademark Office at	
(703) 872-9306.	
1-07-04 (Jumps)	
Date Signature	
JAMES S. FINA	
Typed or printed name of person signing certificate	_

[Page 2 of 3]

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PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED

	concerning the cause of delay
1-07-2004	Signature
Date 38450	JAMES S. FINN
egistration Number, if applicable	Typed or printed name
(In the space provided below, please	explain in detail the reasons for the delay in filing a proper reply.)
PLEASE SEE ATT	ACHED.
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
work Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) TITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED **UNAVOIDABLY UNDER 37 CFR 1.137(a)** Art Unit: 2632 First Named Inventor: TAYLOR ET AL. Application Number: 09/5/195/Examiner: VAN TRIEU Filed: 2/24/2000 Title: SYSTEM AND METHOD FOR INFORMATION ASSIMILATION AND FUNCTIONALITY CONTROL BASED ON POSITIONING INFORMATION OBTAINED BY IMPULSE RADIOMEANS Attention: Office of Petitions **Mail Stop Petition** Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (703) 305-9382. The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United Sates Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained. APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION. NOTE: A grantable petition requires the following items: Petition fee. (1)Reply and/or issue fee. (2)Terminal disclaimer with disclaimer fee-required for all utility and plant applications filed (3)before June 8, 1995, and for all design applications; and (4) Adequate showing of the cause of unavoidable delay. 1. Petition fee Small entity – fee \$_55.00 (37 CFR 1.17(I)). Applicant claims small entity status. See 37 CFR 1.27.

Other than small entity – fee \$_____ (37 CFR 1.17(I)). 2. Reply and/or fee

The reply and/or fee to the above-noted Office action in the form of OFFICE ACTION RESPONSE has been filed previously on 8/26/2003 is enclosed herewith. The issue fee of \$ _____ has been filed previously on _____

is enclosed herewith.

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01/09/2004 AWDNDAF1 00000058 502697

[Page 1 of 3]

This collection of information is required by 37 CFR 1.137(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time woursquire to complete application for reducing this burden, should be sent to the Chief Information Officer, U.S.. Patent and tredefine the price with the comment of reducing this burden, should be sent to the Chief Information Officer, U.S.. Patent and tredefine the price with the comment of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED TO THE SS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/511,991	02/24/2000	Elise Taylor	1659.0930000	5220
26694	7590 05/30/2003			
VENABLE,	BAETJER, HOWARD	AND CIVILETTI, LLP	EXAMI	NER
P.O. BOX 343 WASHINGTO	385 DN, DC 20043-9998		TRIEU, VAI	N THANH
			ARTUNIT	PAPER MUMBER
			2632	19
		•	DATE MAILED ACCOUNTS	ιl

Please find below and/or attached an Office communication concerning this application or proceeding.

Sent to finn (pdf) 7/1/03 due 8/30/03

PTO-90C (Rev. 07-01)

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7 2004		09/511,991		TAYLOR ET AL.	
É	Office Action Summary	Examiner		Art Unit	
. ax c.		Van T Trieu		2632	
	- The MAILING DATE of this communication ap	pears on the cover	sheet with the c	orrespondence ac	ldress –
THE N - Extens siters - If the - If NO - Failur - Any n	PREPLY ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. stons of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above as less then there (30) days, a rey period for reply is specified above, the maximum statutory period to reply within the set or eccented period for reply with, by status epty received by the Office leter then three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe	rver, may a reply be tim Imum of thirty (30) days SIX (6) MONTHS from Decome ABANDONE	sely filed s will be considered time the malling date of this o D (35 U.S.C. 6 133).	ly. Iommunication.
1)⊠	Responsive to communication(s) filed on 24	<u> April 2003</u> .			
2a)□	This action is FINAL. 2b)⊠ T	his action is non-fi	nal.		
3) Dispositi	Since this application is in condition for allow closed in accordance with the practice under on of Claims	vance except for for for for Ex parte Quayle,	rmal matters, pr 1935 C.D. 11, 4	osecution as to the 53 O.G. 213,	ne merits is
1 '	Claim(s) 1-25 is/are pending in the application	ກ.			
1	4a) Of the above claim(s) is/are withdra		ation.		
1	Claim(s) is/are allowed.				
1	Claim(s) <u>1-25</u> is/are rejected.				
1	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction and/	or election require	ment.		
1	on Papers				
,	The specification is objected to by the Examin				
10)	The drawing(s) filed on is/are: a) acc				
_	Applicant may not request that any objection to t				
11)	The proposed drawing correction filed on			ved by the Examir	ner.
_	If approved, corrected drawings are required in n		tion.		
1	The oath or declaration is objected to by the E	xaminer.			
	inder 35 U.S.C. §§ 119 and 120				
1	Acknowledgment is made of a claim for foreign	gn priority under 3	5 U.S.C. § 119(a)-(d) or (f).	
a)(☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documer				•
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1) Notice	ue of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [Notice of Informal	y (PTO-413) Paper N Patent Application (P	o(s) TO-152)

U.S. Palent and Yrademark Office PTO-326 (Rev. 04-01)

Office Action Summary

Part of Paper No. 19

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DETAILED ACTION

Claim Objections

Claim 11 is objected to because of the following informalities: the phrase "he" in line 2 is incorrect. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 recites the limitation "the Internet" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 2, 6-19, 21, 22 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Vercellotti et al** [US 5,317,309] in view of **Fullerton et al** [US 5,677,927].

Regarding claim 1, Vercellotti et al discloses an electronic identification system having RF tag 4 attached to a person entering a portal/entrance 1 to secured area. A plurality of RF receiver 8 having antennas 5, 6 and transmitter 11 with antenna 12 are located at the portal/entrance 1 or within the secured area for interrogating with the RF tag 4 to identify the RF tag 4 and to determined the position of the RF tag 4. The correlation information of identification and position related to a person carrying RF tag 4 are received and computed at the portal/entrance 1 and displayed on a display 10, see Figs. 1 and 2, col. 1, lines 9-18, col. 2, lines 15-55, col. 3, lines 28-61, col. 5, lines 1-48. But Vercellotti et al fails to disclose the ultra wideband impulse radio positioning devices. However, Vercellotti et al teaches that the RF beacons 8, 11 with antennas 5, 6 and 12 are used to determine the position of a person carrying an RF tag 4 to enter the portal/entrance 1 of a secured area, see Figs. 1 and 2, col. 1, lines 9-18 and col. 3, lines 46-61. Fullerton et al discloses an impulse radio communications system using ultra-wideband impulse radio transmitter 901 uses one or more sub-carriers to communicate intelligent information signal 1020 including digital bits representing voice. data, imagery, or the like, analog signals or complex signals in the form of UWB impulse

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radio transmitter to a remote UWB impulse radio receiver 903. The UWB impulse radio communications system is for use in a wide variety of applications, including personal communication systems and in-building communications systems, such as medical and military devices that low power consumption, reuse of available spectrum, channels and cost are four of the main issue, see Figs. 10-19, 21-24, col. 1, lines 12-16, col. 2, lines 11-29, col. 3, lines 1-55, col. 4, lines 1-9, col. 6, lines 36-62, col. 7, lines 10-20, col. 13, lines 54-67, col. 14, lines 1-37, col. 21, lines 28-61, col. 24, line 16-58 and col. 28, lines 1-17. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the UWB impulse radio communication system of Fullerton et al for the RF beacons or interrogations of Vercellotti et al because the UWB impulse radio communications system is for use in a wide variety of applications, including personal communication systems and in-building communications systems, such as medical and military devices that low power consumption, reuse of available spectrum, channels and cost are four of the main issue. The UWB impulse radio communication systems can be use for obtaining information relating to a person, a child, and/or a patient with higher accuracy and reliability of communications there between.

Regarding claim 6, all the claimed subject matters are discussed between **Vercellotti et** all and **Fullerton** et all in respect to claim 1 above, and the UWB impulse radio TAG (the remote monitoring unit utilizing of UWB impulse radio communication system)

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Regarding claim 7, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious a user choice to include the gender of the entrant into the information data stored in the RF tag 4,

Regarding claim 8, all the claimed subject matters are discussed between Vercellotti et all and Fullerton et all in respect to claim 6 above, wherein it is obvious a use choice to include the age of the entrant into the information data stored in the RF tag 4.

Regarding claim 9, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious a use choice to include the physical description of the entrant into the information data stored in the RF tag 4, such as a patient.

Regarding claim 10, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious a use choice to include the primary height of the person into the information data stored in the RF tag 4.

Regarding claim 11, all the claimed subject matters are discussed between Vercellotti et all and Fullerton et all in respect to claim 6 above, wherein it is obvious a use choice to include the indication of whether the child is accompanied by a parent or guardian into the information data stored in the RF tag 4 because the public place or security

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area required under age children need to be accompanied by parents, guardian or teacher.

Regarding claim 12, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious to a use choice to use the identification system at the theme park in order to monitor persons and/or children in a play ground or state park.

Regarding claim 13, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious to a use choice to use the identification system at the shopping mall for monitoring its particular customers or membership customers.

Regarding claim 14, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, and the office building is met by the government facilities, industrial sites or work areas, see col. 1, line 21-26.

Regarding claim 15, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, wherein it is obvious to a use choice to use the identification system at the prison area because the prison areas require a very high security to check every single persons/individuals entering/leaving the prison area.

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Regarding claim 16, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 6 above, and the conventional center is read upon the government facilities, see col. 1, line 21.

Regarding claim 17, all the claimed subject matters are discussed between **Vercellotti** et al and **Fullerton** et al in respect to claim 6 above, wherein it is obvious to a use choice to use the identification system at the zoo because the zoo is a private or public place that requires permission to enter.

Regarding claim 18, all the claimed subject matters are discussed between **Vercellotti** et al and **Fullerton** et al in respect to claim 6 above, wherein museum park is read upon the government facilities, see col. 1, line 21.

Regarding claim 19, all the claimed subject matters are discussed between **Vercellotti** et al and **Fullerton** et al in respect to claim 1 above, and the interface is met by the memory interface and the serial data encoder and decoder, see Fig. 2.

Regarding claim 21, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 19 above.

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Regarding claim 22, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 19 above.

Regarding claim 23, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al in respect to claim 19 above.

Regarding claim 25, all the claimed subject matters are discussed between **Vercellotti** et al and **Fullerton** et al in respect to claim 6 above, wherein the microprocessor 2406, Fig. 24 of **Fullerton** et al which is substituted for the electronic circuit 14 of **Vercellotti** et al for reducing physical size of the circuit and minimizing space.

4. Claims 3, 4, 20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vercellotti et al and Fullerton et al and further in view of Schlager et al [US 5,963,130]

Regarding claim 3, Vercellotti et al fails to disclose the manual input of personal information into a computer in response to questions from an attendant at an entrance to the predetermined area. However, according to the combination of Vercellotti et al and Fullerton et al in respect to claim 1 above, wherein the identification information of a person carrying RF tag 4 is automatically received and displayed on a display 10 at the portal/entrance 1, see Figs. 1 and 2. Schlager et al suggest that a self-locating remote monitoring system 750 comprising a keyboard 1360 for entering data information and preferred location or region of a person, child, parolee and/or patient to

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be monitored, see Figs. 2, 3, 6-8 and 43, col. 28, lines 8-31. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt the keyboard of Schlager et al for entering data information related to a person carrying RF tag at the portal/entrance of Vercellotti et al and Fullerton et al so that authorized person or attendant can update information and track of people entering and/or leaving the secured area.

Regarding claim 4, Vercellotti et al fails to disclose input the personal information via the Internet. However, according to the combinations between Vercellotti et al and Fullerton et al and Schlager et al in respect to claim 4 above, wherein Schlager et al also suggests that the information of a person, child, parolee and/or patient can be connected to the communication networks or internet via a modem 1060, see Fig. 28, col. 22, lines 34-54. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the security system of Vercellotti et al with the modern for connecting to internet network such as of Schlager et al in order to provide convenience and flexibility to an authorized person or attendant to get the personal information of guests or coming individuals in advance from the internet.

Regarding claim 5, all the claimed subject matters are discussed between **Vercellotti et** all and **Fullerton et al** and **Schlager et al** in respect to claim 4 above, such as the modern and computer.

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5. Claims 20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vercellotti et al and Fullerton et al and further in view of Frink [US 5,933,079]

Regarding claim 20, **Vercellotti et al** fails to disclose the activating an alarm when an entrant is in a particular position within a predetermined area. However, a **Vercellotti et al** teaches that physical position of an entrant is monitored and displayed on a display 10, see Fig. 1, col. 3, lines 46-61. **Frink** suggests that a monitoring system comprises a plurality of UWB devices 52, 54, 56 and transponder 58 and a computer 60 to determine the location or position of an individual or a child that entering a prohibited zone, the computer control signal a receiver to produce a loud sound alarm to warn the parent or guardian, see Figs. 1-6, col. 1, lines 32-39, col. 4, lines 63-65 and col. 5, lines 1-4. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt the alarm of **Frink** to the display **Vercellotti et al** and **Fullerton et al** in order to prevent of unauthorized person or child entering of the security areas or restricted areas.

Regarding claim 24, all the claimed subject matters are discussed between Vercellotti et al and Fullerton et al and Frink in respect to claims19 and 20 above.

Response to Arguments

6. Examiner is very regrettably to have a new ground of rejection because, a new reference of Vercellotti et al is combined with Fullerton et al to make the rejection

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smoother, wherein the UWB impulse radio communications systems can be adapted to use on a wide variety of applications including military, personnel and patient for monitoring and/or tracking of a person, a child under monitored at the portal/entrance.

7. There was an error in the entry of Power of Attorney mailed on 23 April 2003. Therefore it has been deleted and not made of record.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to primary examiner **Van Trieu** whose telephone number is (703) 308-5220. The examiner can normally be reached on Mon-Fri from 7:00 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Danial Wu can be reached on (703) 308-6730.

The office facsimile number is (703) 872-9314.

Van Trieu

Primary Examiner

Date: 5/29/03

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A DEMARK CHI	Notice of References Cited

Application/Control No. 09/511,991	Reexaminati	Applicant(s)/Patent Under Reexamination TAYLOR ET AL.		
Examiner	Art Unit			
Van T Trieu	2632	Page 1 of 1		

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5.317.309	05-1994	L. C. Verceliotti, et al	340/573.1
	В	US-5,933,079	08-1999	8. D. Frink	340/539.1
	С	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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	-	US-			
	7	US-			
	К	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

•		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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'A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 19

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OFFICE OF PETITIONS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Taylor et al.

Art Unit:

2632

Appl. No.:

09/511,991

Examiner:

ANH V. LA

Filed:

2/24/2000

Atty Docket: Time.43/JSF04-0001

For:

System and Method for

Information Assimilation and **Functionality Control Based on** Positioning Information Obtained by Impulse Radio Means

Amendment And Reply Under 37 C.F.R. §1.111

Director of the US Patent and Trademark Office PO Box 1450 Alexandria, VA 22313-1450

Sir:

In reply to the Office Action dated 05/30/2002, Applicants submit the following Remarks.

It is believed no extension of time is required pursuant to 37 C.F.R. § 1.136(a); however, if any extensions of time are necessary to prevent abandonment of this application, the Patent Office is authorized to charge deposit account no. 502697 and such extensions of time are hereby petitioned under 37. C.F.R. § 1.136(a).

AMENDMENT

In response to the Office Action dated May 30, 2003, please amend the aboveidentified patent application as follows:

JAN 0 9 2004

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PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 19	95, no persons are required to	respond to a collection of info	ormation unless it displays a valid OMB control number			
EEE TRANS	CATTLAS	Complete if Known				
BAD RAINS	DIVILLIAL	Application Number	09/511,991			
for FY 2003 Effective 01/01/2003. Patent fees are subject to annual revision.		Filing Date	2/24/2000			
		First Named Inventor	Taylor et al.			
		Examiner Name	Van Trieu			
Applicant claims small entity status.	See 37 CFR 1.27	Art Unit	2632			
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In the Claims

Claims 1, 4, 6, 11 and 19 are currently amended and claim 22 was previously amended.

Claims 1 - 25 remain in the application as follows:

- 1. (Currently Amended) A method of correlating information related to an entrant within a predetermined area defined by a plurality of fixed reference ultra wideband impulse radios, comprising the steps of:
- a. obtaining information relating to the entrant within said predetermined area;
- b. determining at least one position of the entrant within said predetermined area using ultra wideband impulse radio position determination techniques; and
- c. correlating information about the entrant to said at least one position of the entrant.
- 2. The method of claim 1, further comprising the step of reporting said correlated information according to desired parameters.
- 3. The method of claim 1, wherein said step of obtaining information relating to the entrant in said predetermined area comprises manual input of personal information into a computer in response to questions from an attendant at an entrance to said predetermined area.

- 4. (Currently Amended) The method of claim 1, wherein said step of obtaining information relating to said entrant in said predetermined area comprises requiring the entrant to input said personal information via a wide area network such as the Internet.
- 5. The method of claim 1, wherein said step of obtaining information relating to the entrant in said predetermined area comprises requiring the entrant input said information via a computing device.
- 6. (Currently Amended) The method of claim 1, wherein said step of correlating comprises associating an ultra wideband impulse radio TAG with the entrant, wherein position of the entrant is determined using said information about the entrant and a position of the ultra wideband impulse radio TAG determined by ultra wideband impulse radio position determination techniques.
- 7. The method of claim 6, wherein said information comprises gender of said entrant.
- 8. The method of claim 6, wherein said information comprises age of the entrant.
- 9. The method of claim 6, wherein said information comprises a physical description of the entrant.
- 10. The method of correlating information related to an object or person moving within a predetermined area of claim 6, wherein said record includes primary height of said person.

- 11. (Currently Amended) The method of claim 6, wherein, if the entrant is a child, said information comprises an indication of whether the child is accompanied by a parent or guardian.
- 12. The method of claim 1, wherein said predetermined area is a theme park.
- 13. The method of claim 1, wherein said predetermined area is a shopping mall.
- 14. The method of claim 1, wherein said predetermined area is an office building.
- 15. The method of claim 1, wherein said predetermined area is a prison.
- 16. The method of claim 1, wherein said predetermined area is a convention center.
- 17. The method of claim 1, wherein said predetermined area is a zoo.
- 18. The method of claim 1, wherein said predetermined area is a museum.
- 19. (Currently Amended) A system of controlling functions in response to position information determined by ultra wideband impulse radio <u>position determination</u> techniques, comprising:

an ultra wideband impulse radio positioning device; and

an interface with a controller, said controller acting upon a function based upon the position information, a predetermined area defined by a plurality of fixed reference ultra wideband impulse radios, which use ultra wideband position determination techniques, and predetermined position parameters.

- 20. The system of claim 19, wherein said function is activating an alarm when an entrant is in a particular position within a predetermined area.
- 21. The system of claim 19, wherein said function is activating a communication device.
- 22. (Previously Amended) The system of claim 21, wherein said communication device comprises an ultra wideband impulse radio, said ultra wideband impulse radio communicating information specific to the position wherein the entrant is located.
- 23. The system claim 19, wherein said function is a visual alarm that illuminates an area wherein an entrant is located.
- 24. The system of claim 19, wherein said function is an alerting means to alert an entrant of an unsafe position.
- 25. The system of claim 19, wherein said controller is a microprocessor.

Remarks

Reconsideration of the application is respectfully requested.

Upon entry of the foregoing amendment, claims 1-25 are pending in the application. These changes are believed to introduce no new matter, and their entry is respectfully requested. Based on the above amendment and the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Summary of claim Rejections

- I. Claim 11 was objected to because of the formality "he" should be --the--.
- II. Claim 4 was rejected based on 35 U.S.C. 112 as the Examiner states there is insufficient antecedent basis for the limitation "the Internet".
- III. Claims 1, 2, 6-19, 21, 22 and 25 were rejected under 35 U.S.C. 103(a) as being unpatentable over Vercellotti et al. (US 5,317,309) in view of Fullerton et al. (US 5,677,927).

Summary of Amendment

Applicants have amended claims 1, 6 and 19 to add the language "position determination" between "ultra wideband impulse radio" and "techniques". Support for the proposed amendments can be found at p.19, lines 17, which states:

See, for example, commonly owned, co-pending applications 09/045,929, filed March 23, 1998, titled "Ultrawide-Band Position Determination System and

Method", and 09/083,993, filed May 26, 1998, titled "System and Method for Distance Measurement by Inphase and Quadrature Signals in a Radio System", both of which are incorporated herein by reference.

Applicants have amended claim 4 to include "<u>a wide area network such as</u>" prior to "the Internet".

Applicants have amended claim 11 at line 2 to change "he" to "the".

Remarks regarding I

Applicant submits the informality is traversed with the claim modification of claim 11.

Remarks regarding II

Applicant has amended claim 4 to provide the indefinite article "a" and "wide area network" prior to the "the Internet". As the Internet is a subset of a wide area network and a wide area network is an inherent super set of the Internet, support for this amendment can be found on page 25, line 23, which states:

"In addition to the mailed questionnaire, information can be input over the Internet and correlated to an entrant TAG for pickup at the predetermined area or again mailed to the future entrant."

Applicant thus submits this rejection is traversed with this amendment of claim 4.

Remarks regarding III

Applicants have amended claims 1, 6 and 19 to add the language "position determination" between "ultra wideband impulse radio" and "techniques". The Examiner stated that it would be obvious to combine Vercellotti et al. and Fullerton et al to anticipate the present invention. Vercelloti provides in the '309 patent a dual mode electronic identification system using a tag which has an RF receiver and transmitter contained therein.

In Vercellotti, in the first mode, the tag responds to an interrogation signal by transmitting identification data to the interrogator. In the second mode the tag periodically transmits an identification beacon signal to a directional sensing antenna which uses the signal to compute the position of the tag. The power supply for the tag operates from an internal battery or from power received from a portal signal via a tag receiving antenna.

Fullerton provides in the '927 patent, an impulse radio communications system using one or more subcarriers to communicate information from an impulse radio transmitter to an impulse radio receiver. The impulse radio communication system is an ultrawide-band time domain system. Further, the '927 patent provides that direct digital modulation of data is another form of subcarrier modulation for impulse radio signals. Direct digital modulation can be used alone to time modulate the periodic timing signal or the direct digitally modulated the periodic timing signal can be further modulated with one or more modulated subcarrier signals. Linearization of a time modulator permits the impulse radio transmitter and receiver to generate time delays having the necessary accuracy for impulse radio communications.

The Applicant respectfully submits that with the modification of the claims, the Examiner can no longer satisfy the basic requirements of a prima facie case of obviousness by using Vercellotti et al and Fullerton et al. to reject the aforementioned claims. For the Examiner to establish a prima facie case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine the references. Second, there must be some reasonable expectation of success. Finally, the references when combined must teach or suggest all of the claimed limitations. Manual of Patent Examining Procedure, Section 2143. For the reasons articulated below, the Applicant believes that in the present case, the Examiner has not met this burden.

The claims have been modified to include the requirement that the position of the TAG be determined by impulse radio <u>position determination</u> techniques. Thus, it would not be possible to simply replace the radios in the dual mode electronic identification system of Vercellotti et al. with the impulse radios of Fullerton to achieve the claimed invention. As noted above, Vercellott requires the use of directional antennas to determine the position of the TAG. Indeed, even if Vercellotti replaced his radios with the Ultra Wide Band radios of Fullerton, the position determination would be done using directional antennas and not the impulse radio position determination techniques disclosed and claimed in the present application.

Again, as discussed above, Fullerton discloses ultra wideband radios, but not the impulse radio position determination techniques of the present invention; and Vercellotti discusses position determination, but not by using impulse radio position determination

techniques. Thus, determining the position of the TAG using impulse radio position determination techniques is neither disclosed, taught, nor suggested in either Fullerton or Vercellotti.

The Applicant respectfully submits the rejection set forth in III, has been traversed.

Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot.

Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reasons, that personal communication will expedite prosecution of this application the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

James S. Finn Reg. No. 38450

Date: 8-26-03

James S. Finn Registered Patent Attorney Time Domain Corporation 7057 Old Madison Pike Huntsville, AL 35806 202-607-4607